S3 Trio3D

C365AGP

User's Manual

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CHAPTER 1
INTRODUCTION

The C365AGP is based on S3 Trio3D AGP 2X, a high integrated 2D/3D graphics and video accelerator. It was focused at business multimedia applications as wellas next generation follow-on to the Trio64V+Trio64V2. The cost-effective 4MB SDRAM is supported with brilliant performance. The C365AGP provides hardware support for individually scalable dual video windows against a graphics background, making perfectly video conferencing applications.

- High-performance SDRAM-based Graphics/Video Accelerator
- Default 4MB SDRAM memory on-board
- Enhanced 128-bit graphics engine
- Integrated 230MHz RAMDAC and programmable dual-block synthesizer
- Enhanced S3 Streams Processor technology for hardware-assistedhigh-quality video playback of two video streams against a graphics background
- Video stretching, filtering, blending and color space conversion of three independent pixel streams on the fly
- Support simultaneous display of graphics and video of different color depths
- Hue, saturation, brightness and contrast controls for two secondary video streams
- Hardware support for individually scalable dual video windows
- High-quality vertical interpolation

1.1 Software Compatibility

The key function of the C365AGP is its VGA compatibility. When the C365AGP is used in VGA, backward compatibility, 16-color AGP modes, or the graphics engine of the Intel740 card is not used. The speed in these modes will be comparable to the fastest type of standard VGA card.

1.2 Monitor Compatibility

The C365AGP will work with any VGA, Super VGA or Multisync monitor.

Super VGA monitors can support IBM standard VGA plus the 800x600 extended mode used by most VGA cards, and the 1024x768 interlaced mode used by most VGA cards and the IBM 8514A.

Multisync monitors are more expensive and will work at all Super VGA resolutions plus additional higher resolutions or refresh rates. The most useful multisync monitor specification for determining maximum resolution and refresh capability is the horizontal frequency range. For PC use, the lower limit of the range must be no less than 30KHz. The upper limit is usually 48 KHz, 57 KHz or 64 KHz. These correspond to a maximum resolution of 1024 x 768, 60 Hz refresh, 1024 x768, 72 Hz refresh rate; and 1280x1024, 60 Hz refresh rate, respectively.

By default, the C365AGP will drive your monitor at a screen refresh rate of 60 Hz. In other words, it repaints the screen 60 times per second. If the screen is not displayed properly when you boot your system, your monitor may not support this refresh rate for the resolution chosen. In this case, you must either lower the resolution to one that can be supported at 60Hz or lower the refresh rate. The maximum refresh rate supported by your monitor is specified with the Refresh Rate utility. See the Windows 95 Driver Installation section for instructions on how to use this utility.

Refer to your manual for information on the monitor capabilities. If you are not sure what refresh rate is supported, you can always try a higher rate. If the screen looks good, the rate is supported (and will be easier on your eyes).

CHAPTER 2
HARDWARE CONFIGURATION

2.1 What's Included in the Package

The VGA card package includes the following:
1. VGA card accelerator card
2. Software diskettes which contain the necessary files
3. This manual

2.2 Installing the Card

1. Unplug the computer and remove the cover.

Shut down the computer and turn off any attached equipment (such as a monitor or printer).

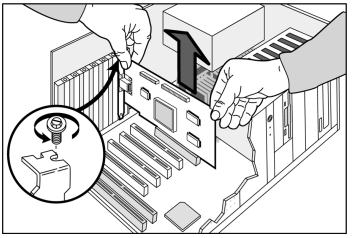
Unplug the power cord.

Remove the cover.

2. Remove the current graphics card.

If there is a graphics card currently in the computer, use the following guidelines to remove it:

Detach any cables which are attached to the current graphics card and remove the bracket screw locking the card down.

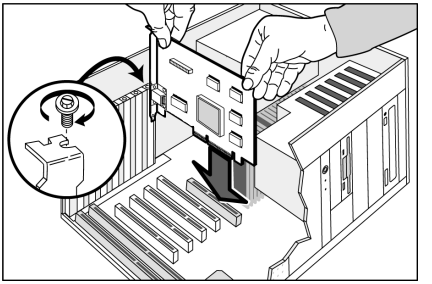


Grasp the card by the edges and pull it straight out of the motherboard slot. If the card sticks in the slot, rock it gently from end to end to dislodge it. Remember to save the screw.

Note: If the computer has a graphics chip soldered down on the motherboard, refer to the manual for the system or motherboard for information on how to disable it.

3. Insert the Graphics Accelerator card.

Locate the empty AGP socket on the motherboard and use the following instructions to insert the C365AGP Graphics Accelerator reference card into that socket:



Grasp the C365AGP Graphics Accelerator reference card by its edges.

Align it with the empty AGP socket on the motherboard, and gently insert it into place.

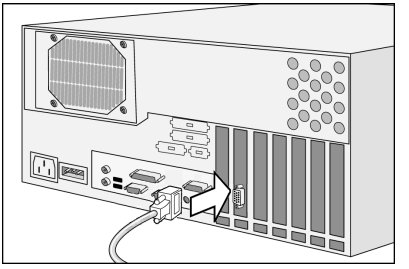
Make sure that the card is pressed evenly and completely into the socket.

Fasten the card with the bracket screw.

Note: Use the figure above to help locate the Accelerated Graphics Port (AGP) socket on your motherboard. The exact configuration of the components on your motherboard may differ from the figure. Look for a single, smaller socket between the set of PCI sockets and the processor.

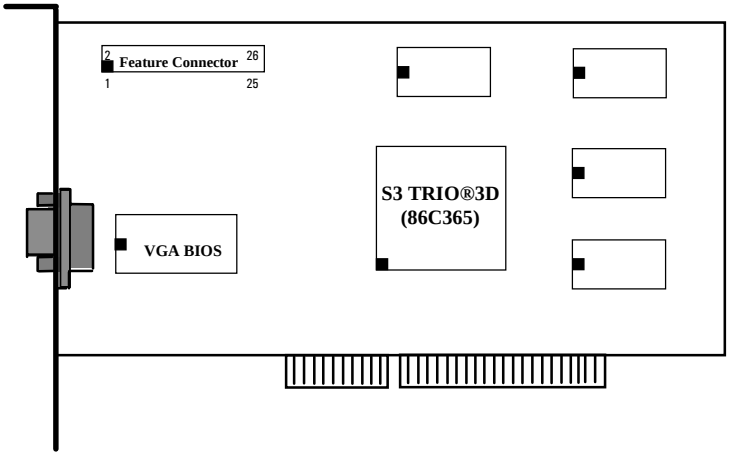
4. Reconnect all cable and Replace the cover.

Plug the cable from your computer monitor into the back of the C365AGP Graphics Accelerator reference card. Make sure it is securely fastened.



Carefully replace the computer cover and plug the power cord back in.

2.3 C365AGP Board Layout

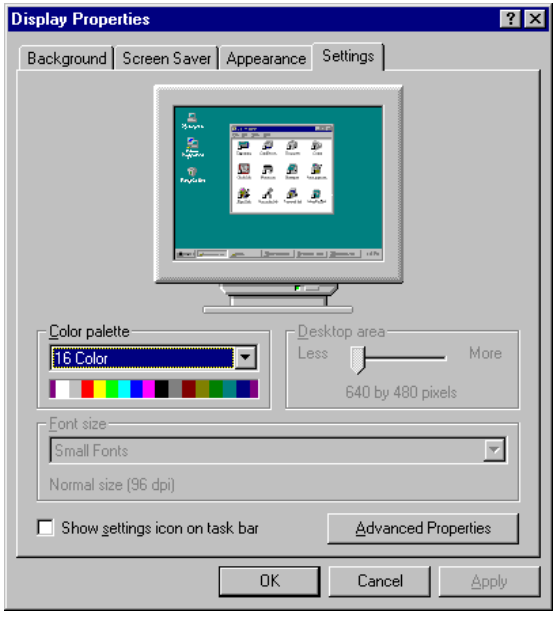


CHAPTER 3
AWARD BIOS SETUP

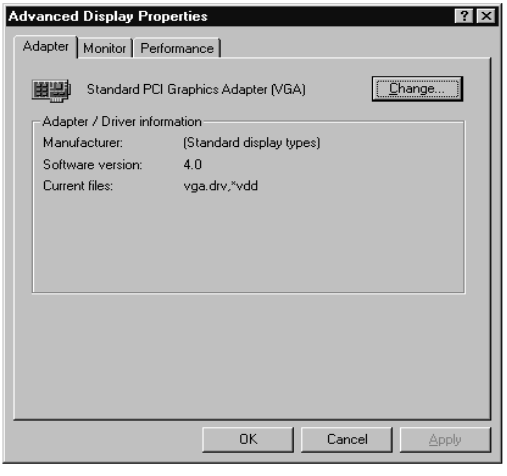
The C365AGP is 100% VGA compatible and as such needs no special display drivers to run application software correctly at standard VGA resolutions and color depths. However, enhanced display drivers are supplied with the VGA card because they provide accelerated performance, higher color depths and higher resolutions for software applications. The VGA card supports resolutions as high as 1280x1024 64K, and color depths of up to 32 bits per pixel. Higher graphics resolutions and higher color depths provide greater clarity and detail when using the supplied drivers for graphics programs. When configuring your software to work with the board, it may help to bear in mind that the drivers compatible with the VGA card fall into four categories.

3.1 Installing on Windows 95

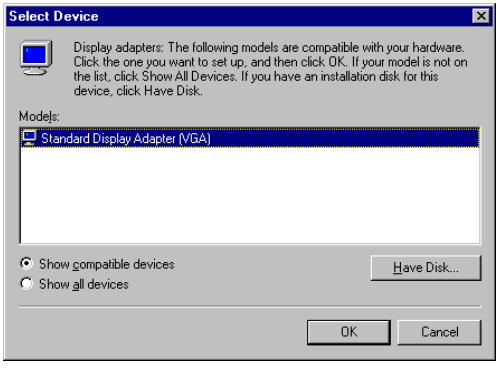
1. After Windows 9x has loaded, click on "My Computer" icon, "Control Panel" icon, and then the "Display" icon.
2. You should now be in the "Display Properties" window. Select the"Settings" tab, and click on the "Advanced Properties" button.



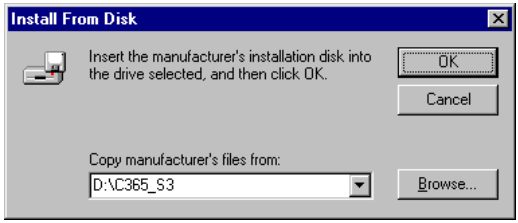
3. In the “Advanced Display Properties” window, select the “Adapter” tab, and click the “Change...” button.



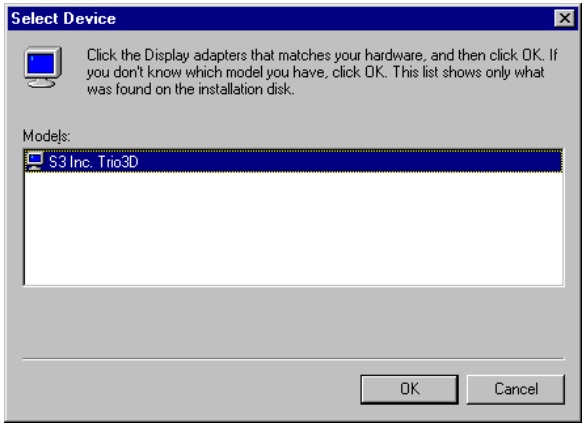
4. From the new window, click on the “Have Disk” button.


Select Device
Display adapters: The following models are compatible with your hardware. Click the one you want to set up, and then click OK. If your model is not on the list, click Show All Devices. If you have an installation disk for this device, click Have Disk.
Models:
Standard Display Adapter (VGA)
Show compatible devices
Show all devices
Have Disk...
OK
Cancel

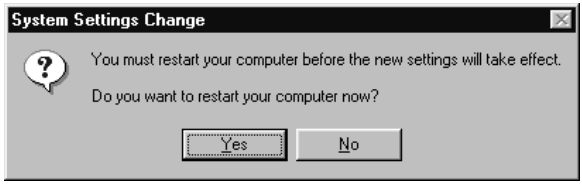
5. You should now be in the "Install From Disk" window. In the "Copy manufactures files from:" box, enter the location of the C365AGP drivers and press the "OK" button. If the drivers are still on the CD-ROM, place the CD-ROM in the proper drive and click the "Browse..." button. The drivers are located in the "\C365_S3" directory of the CD-ROM. When the correct directory is chosen, click "OK" to continue the installation.



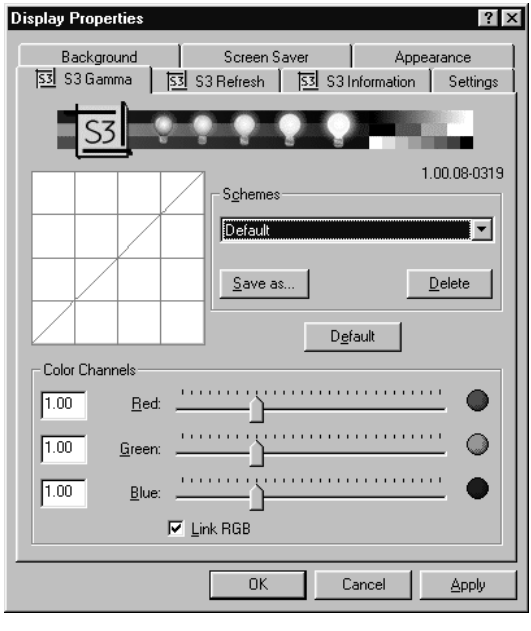
6. A window should pop up stating that the "S3 Inc. Trio3D" drivers are about to be installed. Click the "OK" button to accept the display driver change, and then click the "Close" button in the "Advanced Display Properties" window as well as the "Display Properties" window to complete the installation.


Select Device
Click the Display adapters that matches your hardware, and then click OK. If you don't know which model you have, click OK. This list shows only what was found on the installation disk.
Models:
S3 Inc. Trio3D
OK
Cancel

7. Windows 95 will need to restart your system to complete the upgrade. Click the "Yes" button to finish the upgrade. When your system is done restarting, the new drivers will be in place.

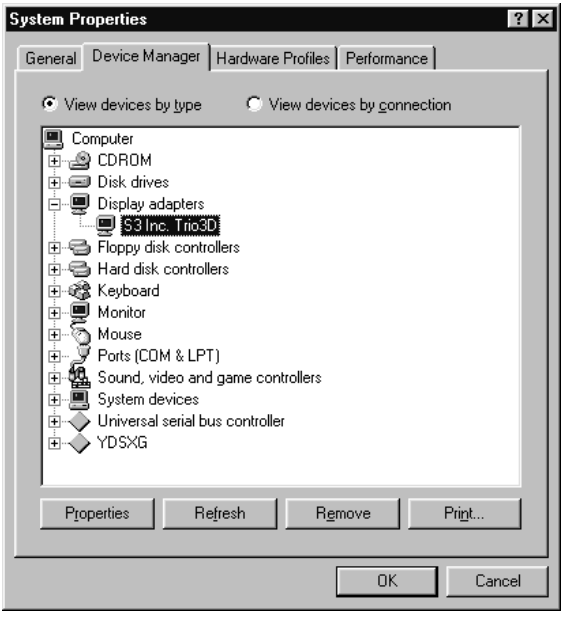

System Settings Change
You must restart your computer before the new settings will take effect.
Do you want to restart your computer now?
Yes
No

8. To make sure if your installation is successful, you can click the Display icon from the Control Panel to show the slightly different Properties window. Now it's possible to change your display resolution, color palette, and other "S3" settings through this window.



Verifying Driver Installation

1. From the Windows 95 desktop, click on "My Computer", then "Control Panel", and then, finally, "System".
2. You should be in the "System Properties" window. Click on the "Device Manager" tab. From here, go down to "Display Adapter" and click. The drivers associated with the display adapter should read: "S3 Inc. Trio3D". If this is not the case, the drivers will need to be re-installed.

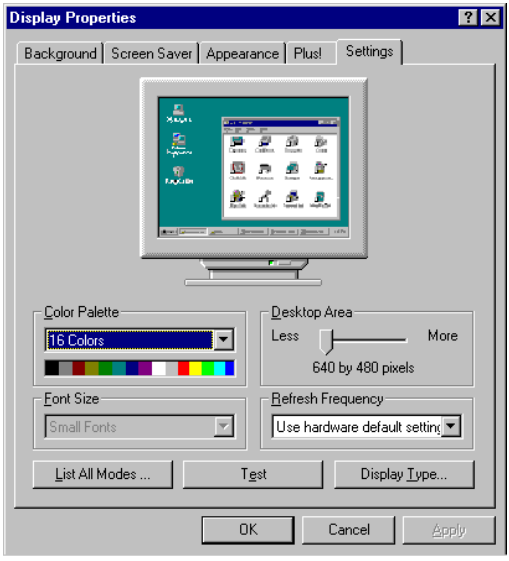


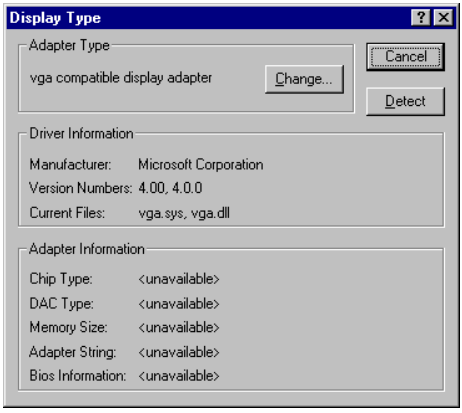
3.2 Installing on Windows NT4.0

General Installation Notes

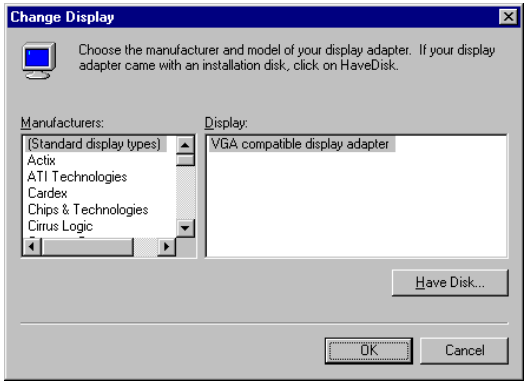
Before install Windows NT 4.0 Driver, Please install Microsoft Service pack 3 First.

1. Before installing the C365AGP drivers, first make sure that the Windows NT default VGA graphics adapter drivers are currently installed. To do this, click on "My Computer" and then "Control Panel". In the "Control Panel" window, click on "Display". In the "Display Properties" window, click on the "Settings tab. Click the "Display Type" button and if the VGA graphics adapter is the current graphics adapter, go to step 2 below, otherwise click "Change".

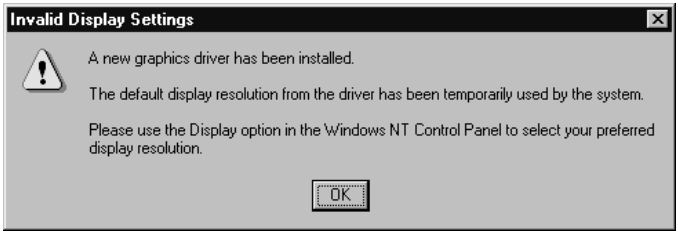




In the "Change Display" window, highlight the "Standard Display Types" under the Manufacturers column and then highlight the "VGA Compatible Display Adapter" under the Display column. Click "OK". After the drivers have been successfully installed, click "OK" in the "Installing Driver" Window. Click the close button in the "Display Type" window and then again click "Close" in the "Display Properties" window. Restart the computer when the prompted to do so.

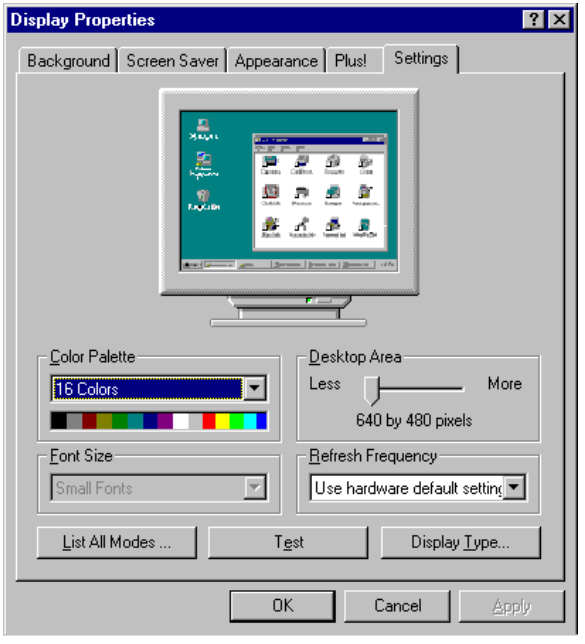


After rebooting, the "Invalid Display Settings" window will appear. Press "OK" and change the resolution settings, if desired. If you choose to change the resolution and/or color depth settings, follow the instructions on the screen.

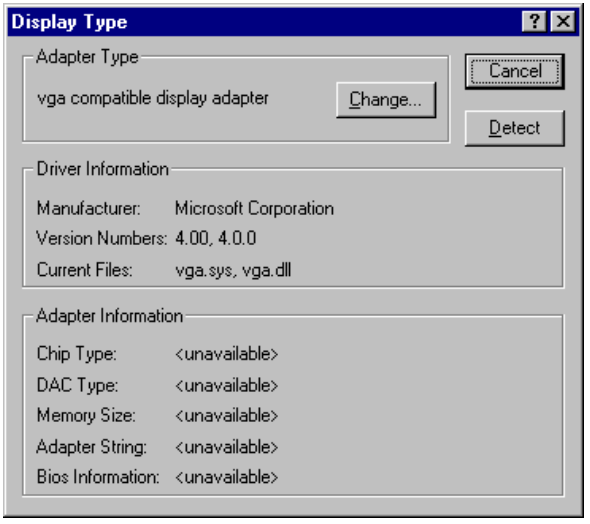

Invalid Display Settings
A new graphics driver has been installed.
The default display resolution from the driver has been temporarily used by the system.
Please use the Display option in the Windows NT Control Panel to select your preferred display resolution.
OK

2. After Windows NT 4.0 has loaded, click on "My Computer" icon, "Control Panel" icon, and then the "Display" icon.

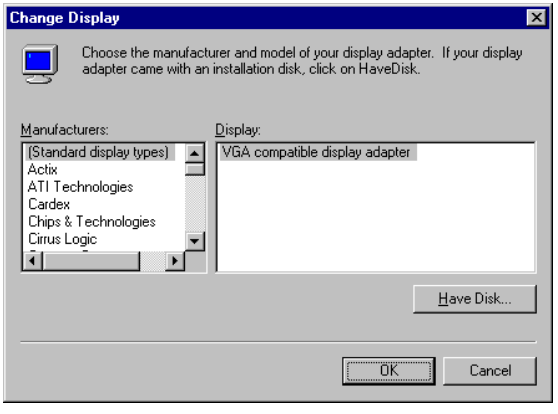
3. You should now be in the "Display Properties" window. Select the "Settings" tab, and click on the "Display Type" button.



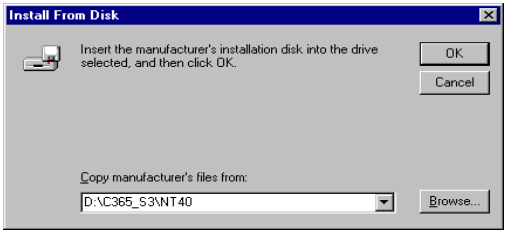
4. "Display Type" window, click the "Change..." button.



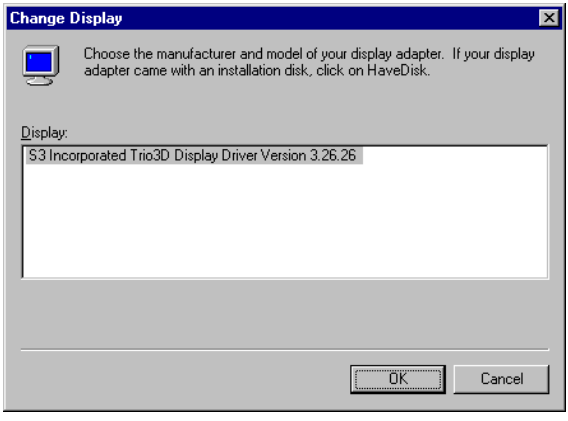
5. From the new window, click on the "Have Disk" button.



6. You should now be in the "Install From Disk" window. In the "Copy manufactures files from:" box, place the CD-ROM in the proper drive and click the "Browse..." button. The drivers are located in the "\C365_S3\NT40" directory of the CD-ROM. When the correct directory is chosen, click "OK" to continue the installation.



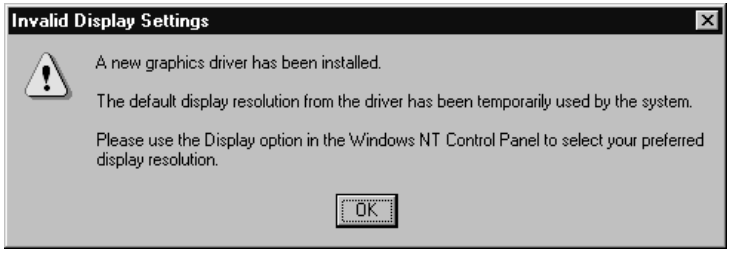
7. A window should pop up stating that the "S3 Incorporated Trio3D Display" drivers are about to be installed. Click the "OK" button to accept the display driver change, and then click the "Yes" button in the "Third Party Drivers" window as well as the "OK" button in the "Installing Driver" window. Click "Close" on the "Display Properties" window to complete the installation. Restart the computer when prompted to do so.


Change Display
Choose the manufacturer and model of your display adapter. If your display adapter came with an installation disk, click on HaveDisk.
Display:
S3 Incorporated Trio3D Display Driver Version 3.26.26
OK
Cancel

Third-party Drivers.
You are about to install a third-party driver.
This driver was written by the hardware vendor, and is only provided here as a convenience. For any problem with this driver, please contact the hardware vendor.
Do you wish to proceed ?
Yes
No

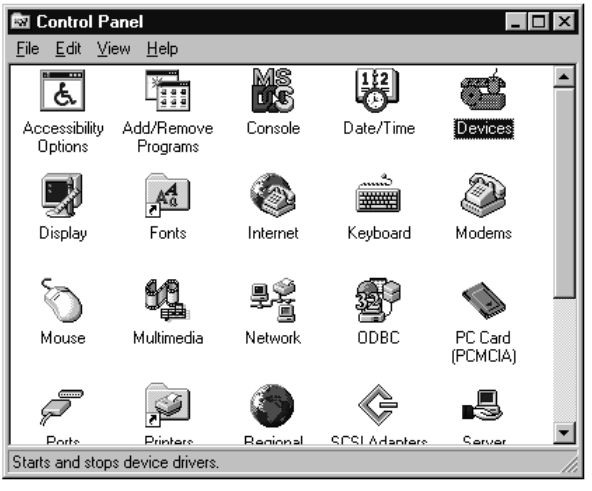
Installing Driver
The drivers were successfully installed.
You must exit from the Display Properties window and reboot in order for the changes to take effect.
OK

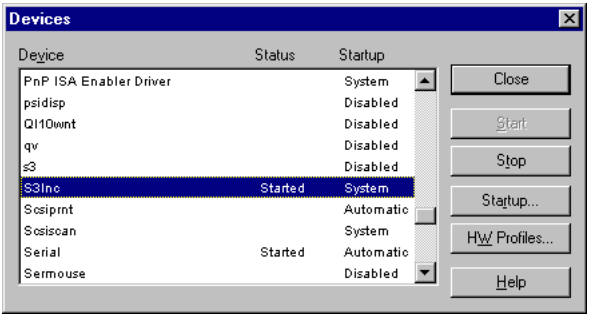
8. After rebooting, the "Invalid Display Settings" window will appear. Press "OK" and change the resolution settings, if desired. If you choose to change the resolution and/or color depth settings, follow the instructions on the screen.


Invalid Display Settings
A new graphics driver has been installed.
The default display resolution from the driver has been temporarily used by the system.
Please use the Display option in the Windows NT Control Panel to select your preferred display resolution.
OK

Verifying Driver Installation

From the Windows NT desktop, click on "My Computer" then "Control Panel" then "Devices". In the "Devices" window, under the "Device" column the driver associated with the display adapter should read:
"S3Inc" and the "Status" column next to the driver should read "Started". If this is not the case, the drivers will need to be re- installed.





CHAPTER 4
SOFTWARE MPEG PLAYER

4.1 Introduction

Software Requirements

- Microsoft Windows 3.x, Windows for Workgroups, or Windows 95
- Media Player 2.0 (from Video for Windows 1.1e)
- S3 Windows driver

Hardware Requirements

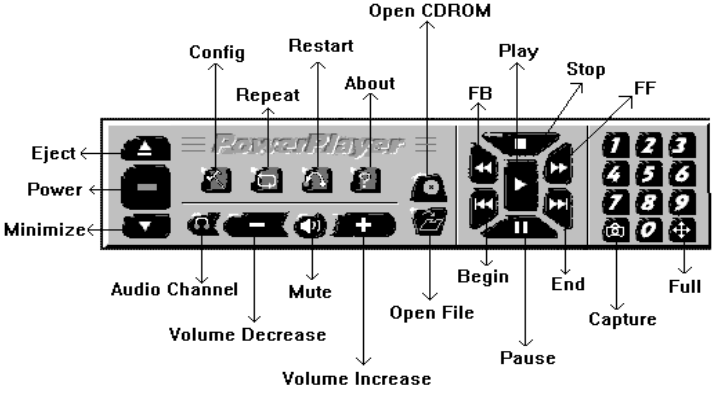
- Pentium-100MHz (Cyrix 6x86-P120+) or above
- At least 2MB of free hard disk space
- 4x speed or above CD-ROM drive
- Sound card with a Windows wave audio driver installed
- 256 (or above) color VGA card is required. A VGA card with DCI or DirectDraw support is recommended
- 8MB of system memory is required

4.2 Installing Software MPEG Player

Installing on Windows 95

1. Start Windows 95.
2. Insert the VCD PowerPlayer setup disk into drive A (or CD-ROM drive).
3. Choose Run from the Start menu.
4. In the Run dialog, type “A:\Setup” (or D:\Mplayer\Setup) and click the “OK” button.
5. The VCD PowerPlayer setup program will begin the execution.
6. Follow the on-screen prompts until the installation is complete.

The control panel of the software MPEG Player is shown in the following diagram:



The some important buttons which deserve greater detail are as follows:

Config:	Set up the device options.
Repeat:	Repeat the playback continuously.
Restart:	Resume the playback from the beginning
Number:	Choose a particular track.
Capture:	Clicking on this icon will capture the image on the video screen into the Clipboard. To get the image, you can save it as a .BMP file or use the typical Windows cut/ copy/paste features.
Full:	Switch the playback screen at 1x, Maximize, Full screen.
Audio Channel:	Select the left and/or right audio channel.

CHAPTER A SPECIFICATIONS

A.1 Hardware Specifications

Generic Classification
Video Display Adapter/Fixed Function Graphics Accelerator

Bus Type
32-bit AGP Bus

Video Connector
VGA standard 15-pin analog RGB

Graphics Accelerator
C365AGP for S3 TRIO 3D

Display Memory
4MB SDRAM

Monitor Compatibility
All VGA, Super VGA and Multisync. The resolutions of 1280 x 1024 and 1024 x 768 require a multisync monitor with a 48 and 57 KHz maximum horizontal scan rate, respectively.

A.2 Programming Information

The C365AGP supports all VGA modes. This is the default configuration of the VGA BIOS.

The extended VGA graphics mode is invoked by the normal INT 10 mode call. All the VGA extended modes can be invoked with the VESA defined select extended mode BIOS call.

A.3 Windows 95 Resolution Table

GRAPHICS RESOLUTION	COLOR DEPTH	FRAME BUFFER SIZE
640X480	256	4MB
640X480	High Color	4MB
640X480	True Color	4MB
800X600	256	4MB
800X600	High Color	4MB
800X600	True Color	4MB
1024X768	256	4MB
1024X768	High Color	4MB
1024X768	True Color	4MB
1152X864	256	4MB
1152X864	High Color	4MB
1152X864	True Color	4MB
1280X1024	High Color	4MB

A.4 Windows NT4.0 Resolution Table

GRAPHICS RESOLUTION	COLOR DEPTH	FRAME BUFFER SIZE
640X480	256 Colors	4MB
640X480	32768 Colors	4MB
640X480	65536 Colors	4MB
640X480	True Color	4MB
800X600	256 Colors	4MB
800X600	32768 Colors	4MB
800X600	65536 Colors	4MB
800X600	True Color	4MB
1024X768	256 Colors	4MB
1024X768	32768 Colors	4MB
1024X768	65536 Colors	4MB
1024X768	True Color	4MB
1152X864	256 Colors	4MB
1152X864	32768 Colors	4MB
1152X864	65536 Colors	4MB
1152X864	True Color	4MB
1280X1024	256 Colors	4MB
1280X1024	32768 Colors	4MB
1280X1024	65536 Colors	4MB
1600X1200	256 Colors	4MB
1600X1200	32768 Colors	4MB
1600X1200	65536 Colors	4MB